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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/781,041	02/17/2004	Haifeng Wang	944-005,025	8368

4955

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EXAMINER

DEPPEL, BETSY LEE

ART UNIT

PAPER NUMBER

2611

MAIL DATE

DELIVERY MODE

07/08/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/781,041

Applicant(s)

WANG ET AL.

Examiner

Betsy L. Deppe

Art Unit

2611

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 April 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☒ Claim(s) 1-20 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-946)
- 3) ☐ Information Disclosure Statement(s) (PTO/SF/ICE)
- 4) ☐ Interview Summary (PTO-413)
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____
- Paper No(s)/Mail Date _____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on April 14, 2008 has been entered.

Specification

2. The disclosure is objected to because of the following informalities:
- a. "Λ" in the equations in the detailed description (for example, see equation (1)) is not defined;
 - b. on page 10, line 33, "IFFF" should be "IFFT"; and
 - c. on page 13, line 30, "transceivcers" should be "transceivers."
- Appropriate correction is required.

Claim Objections

3. The claims are objected to because of the following informalities:
- a. in claim 1, lines 5 and 8, "for providing" should be "to provide";
 - b. in claim 1, line 6, "a" should be inserted before "scrambled coded signal";

- c. in claim 1, line 8, "a" should be inserted before "guard interval";
- d. in claim 2, line 3, "for providing" should be "to provide";
- e. in claim 2, lines 7, 9 and 10, "scrambled" should be "descrambled" in order to be consistent with the "descrambling" step. The Examiner apologizes for the typographical error in the last Office Action suggesting "scrambled" instead of "descrambled."
- f. in claim 5, lines 2 and 3, "scrambled" should be "descrambled";
- g. in claim 7, line 6, "time-domain scrambled" should be "scrambled time-domain";
- h. in claim 6, line 8, "a" should be inserted before "guard interval";
- i. in claim 7, line 9, "for providing the" should be "to provide a";
- j. in claim 9, line 9, "of guard interval for providing the" should be "of a guard interval to provide a";
- k. in claim 9, line 11, "a data stream indicative of the guard-interval signal" should be "the data stream with the guard interval" (see claim 9, line 9);
- l. in claim 9, line 13, "for providing" should be "to provide";
- m. in claim 9, line 15, "frequency domain" should be "frequency-domain" (see line 13);
- n. in claim 9, lines 18-20, each occurrence of "scrambled" should be "descrambled";
- o. in claim 10, line 3, the Examiner suggests changing "equalized for providing an equalized frequency-domain signal by a one-tap channel equalizer"

to "equalized by a one-tap channel equalizer to provide an equalized frequency-domain signal" for clarification;

- p. in claim 11, lines 4 and 5, "scrambled" should be "descrambled";
- q. in claim 12, line 12, "of guard interval for providing the data" should be "of a guard interval to provide a data";
- r. in claim 12, lines 14-15, "a data stream indicative of the guard-interval signal" should be "the data stream with the guard interval";
- s. in claim 12, line 17, "guard-interval" should be "guard interval";
- t. in claim 12, lines 16-18, each occurrence of "scrambled" should be "descrambled";
- u. in claim 18, lines 15-16, "of guard interval for providing the data" should be "of a guard interval to provide a data";
- v. in claim 18, lines 17-18 "a data stream indicative of the guard-interval signal" should be "the data stream with the guard interval";
- w. in claim 18, line 21, "guard-interval" should be "guard interval"; and
- x. in claim 18, lines 30-32, each occurrence of "scrambled" should be "descrambled".

Dependent claim(s) are also objected to on the same ground(s) as the claim(s) from which they depend. Appropriate correction is required.

Conclusion

4. This application is in condition for allowance except for the following formal matters: objections to the specification and claims.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 25 USPQ 74, 453 O.G. 213, (Comm'r Pat. 1935).

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Betsy L. Deppe whose telephone number is (571) 272-3054. The examiner can normally be reached on Monday, Wednesday and Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh M. Fan can be reached on (571) 272-3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

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USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Betsy L. Deppe/
Primary Examiner, Art Unit 2611